

AMENDMENT TO THE SPECIFICATION

Pleas substitute the following replacement paragraph for the paragraph at page 1, lines 7-21:

The present invention provides a method of determining cAMP content or an adenylate cyclase activity in a biological sample containing ~~non-cyclic adenine nucleotides selected from the group consisting of~~ cAMP (cyclic adenosine-3',5'-monophosphate) produced from ATP by endogenous adenylate cyclase (cyclic adenosine-3',5'-monophosphate) and ~~non-cyclic adenine nucleotides selected from the group consisting of~~ ATP (adenosine-triphosphate), ADP (adenosine-diphosphate), AMP (adenosine-3',5'-monophosphate) and a mixture thereof without the use of radioactive agents. More particularly, the invention relates to a method which comprises: (1) combining a biological sample with effective amounts of apyrase, adenosine deaminase and alkaline phosphatase to enzymatically remove non-cyclic adenine nucleotides other than cAMP, and glucose-6-phosphate in the sample; (2) enzymatically converting cAMP into AMP; (3) determining an amount of AMP without the use of radioactive agents.